Amendments to the specification

ABSTRACT

An improved lip product applicator for applying a pasty or semi soft lip product to a user's lips comprising a body is described. The body has a product reservoir extending therefrom. The product reservoir is generally hollow and has a tip extending from an end of the reservoir opposite the body. The reservoir has a means is designed so as to allow for discharging product contained therein through an orifice in said tip. The tip is made of a clear material that permits the user to view the color of the product contained therein. The tip is also tapered and retains its tapered shape as lip product is applied to a user's lips.

Detailed description of the invention

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The applicator of the present invention is shown in more detail in FIG. 2. The body 11 may be a hollow tube, open at both ends, a cup like member with a base section and sidewalls, etc. The hollow tube arrangement is particularly advantageous where there is a perfume or other container is present in one end of the body. Also, a hollow tube is useful even when another container is not present extending from the body. In these instances, an open end on the bottom of the body conveniently permits insertion of the remainder of the lip applicator into the body as wells as permitting filling of the applicator with lip product through that end. An end piece 71 may be applied over the open end when assembly or filling is completed, as seen in FIGS. 9, 10A and 10B. This end piece may be adhered to the body by a suitable adhesive or it may be secured by other conventional means.

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The drive means may be a disk 24 that is usually outside of the reservoir 33 and preferably secured within the body 11 of the applicator. One means of securing the disk in the body is by an adhesive. Another approach is to make the body slightly tapered and the diameter of the disk should be slightly larger than at least a portion of the inner diameter of the body. Although the term diameter is used herein to describe the distance from one inner wall of the body to the other, it will be appreciated that the inner wall need not be circular and the disk similarly need not be circular. As long as the disk can be secured to the body the disk and the body can be any shape. As seen in FIG. 7A the disk 24 has a polygonal perimeter and is not round. It has been found that such a design provides sufficient friction so that the disk is secure in the body. Extending from one side of the disk 24 is a support member 25. The support member 25 extends from the side of the disk that is opposite the base 14 of the body. Support member 25 can either be integral with the disk 24 or a separate member therefrom. If it is a separate member, it should be secured to the disk in some fashion. Support member 25 is inserted into the open end 33 of the reservoir 30. On top of support member 25 there may be a sponge type material 25A, as seen in FIG 7C, to help seal the end of the reservoir but this sponge member is not necessary in most instances.

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The support member 25 provides an anchoring means for the screw means 26. The screw means 26 is generally in the center of one side of the support member. As seen in FIG. 7B the screw means 26 is a threaded rod that has one end embedded in or secured to the support member 25 and the other end preferably being free within the reservoir 30. Alternatively, the screw means may be anchored at its end opposite to the support member in the underside of the tip 32. Riding on the screw means 26 is driving member 27. The driving member 27 is preferably a round disk-like member that has the screw means pass through generally the center thereof, as seen in FIGS. 6A, 6B and 6C. Although the driving member may be generally parallel to the base of the body, in one embodiment the driving member may be angled as shown at 28. Where the driving member is angled, the underside of the tip 32 should also be angled to permit the user to remove as much product as possible from the applicator. The driving member 27 receives the threads of the screw means 26 and rides upwardly or downwardly on the threads as the body of the applicator is turned. To prevent the driving member 27 from merely turning in response to the motion of the body 11 and not traveling in the reservoir, the interior wall is preferably provided with a guide member 41 that extends from the wall of the reservoir along at least a portion of its length, as seen in FIG. 6B. The driving member has a recess along its edge 43 for receiving the guide member 41. Alternatively, the driving member 27 may be provided with the guide member and the inside wall surface of the reservoir has a recess for receiving the guide member on the drive member. The travel of the driving member 27 upwardly forces product within the reservoir to be dispensed.

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Around the reservoir 33 and generally in the vicinity of the open end 33 may be a turning collar or A-shell 35, as seen in FIGS. 11A, 11C, 12A and 12C. Turning collar 35 is between the body 11 and the reservoir 30. In this preferred embodiment, the collar 35 is adhered to a portion of the circumference of the reservoir 30. The collar acts as a finger hold to provide an area where the user of the lip product can place their fingers to prevent the reservoir from turning as the body is being turned to drive the driving member 28 to dispense or retract product. The collar is connected to the reservoir by a suitable means. The collar 35 preferably has one end slightly within the end of the body primarily for aesthetic reasons. The finger hold may preferably be either entirely made of a clear material or the hand hold may be provided with a slit or window 37 permitting the purchaser to view the product's color with the cap removed and to also determine the amount of product remaining in the reservoir. When a slit is present it may extend from the edge of the turning collar 35 and have a pair of side edges 73 and 74 as well as a base portion 75. In another embodiment the slit does not extend to the edge of the collar 72. When a window is present the window preferably does not extend to the edge of the collar and has a top edge 76, side edges 73 and 74 and base portion 75. The window may be a strip of clear material such as PETG or other clear material. As discussed above, the window and or slit is depicted generally rectangularly but any number of shapes are satisfactory as long as the amount of product or the color can be viewed through the window or slit.

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As noted above, the reservoir 30 has a tip 32, as seen in FIGS. 11B and 12B. This tip is preferably tapered in the manner shown in FIGS. 3 and 4. The tip is provided with a tear drop shape. More specifically, the tip 32 has a face 50, as seen in FIG. 5, that in addition to the teardrop shape is also preferably slightly concave along both the vertical and horizontal axes to permit lip product to be retained on the face when it is discharged from the reservoir 30 through tube 51 and out of orifice 52. The orifice 52 may be larger in diameter than the tube 51 or the orifice may be angled and then the orifice will appear to be larger due to the angle of the face 50. The face 50 is preferably provided with a plurality of canals or channels 53 for receiving lip product. In a preferred embodiment the canals are arranged such that there is a perimeter canal 54 that traces the edge of the face, a first vertical canal 55 that extends from the orifice 52. The first vertical canal 55 may be bisected by first and second horizontal canals 56 and 57. An alternative embodiment of the face is shown in FIG. 11D. Although it has been found that the arrangement of the canals permits the user to apply lip product in a manner similar to the traditional lip stick there are other arrangements that may be used. One of the advantages of the present invention is that the applicator tip maintains its shape and provides an angle for applying the lip product that is similar to the angle of the traditional lip stick without wearing away from use or having its shape distorted. In a preferred embodiment, the tip of the lip applicator is clear or translucent so that the color of the product shows through it. In another embodiment, the tip may be colored to mask the color of the lip material.

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The cap 12 fits over the applicator tip to prevent contamination of the product when the applicator is not in use, as seen in FIG. 8. Where the cap 12 meets the body 11 there is provided a skirt 58 which aids in disguising any minor differences in the size of the cap compared to the size of the body. The interior of the cap is provided with plug 59 which is inserted into the orifice 52 to prevent product from being expelled during storage and to protect the product from contamination when not in use. In a preferred embodiment, the plug 59 is tapered, i.e., is narrower at the tip 60 than it is at its base 61. The base 61 of the plug 59 is secured to the cap by any convenient means. One preferred means that is particularly suitable where the window in the cap extends over the top portion of the cap is to provide a protrusion 62 that extends from the inside surface of the cap. The protrusion 62 has a head 63 that is larger than its stem 64. This head is inserted in a recess 65 in plug 59 and secures the plug to the cap.